



श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान, तिरुवनन्दपुरम् - ६९५ ०११, केरल, भारत

SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY

THIRUVANANTHAPURAM – 695 011 KERALA, INDIA

(An Institute of National Importance under Govt. of India)

(भारत सरकार के अधीन एक राष्ट्रीय महत्व संस्थान)

Ph: 0471-2443152, FAX: 0471-2446433, 2550728

Email: [sct@sctimst.ac.in](mailto:sct@sctimst.ac.in) Website – [www.sctimst.ac.in](http://www.sctimst.ac.in)

**WRITTEN TEST FOR MFCP SCIENTIFIC ASSISTANT (INSTRUMENTS) TO**  
**Sr. SCIENTIFIC ASSISTANT (INSTRUMENTS)**

Roll No.

Date: 24.09.2026

Duration: 60 Minutes

Time: 9.15 A.M

Total Marks: 50

**INSTRUCTIONS TO THE CANDIDATE**

1. Write your Roll Number on the top of the Question Booklet and in the answer sheet.
2. Write legibly the alphabet of the most appropriate answer in the separate answer sheet provided.
3. There will not be any Negative marking.
4. Over-writing is not permitted.
5. Candidate should sign in the question paper and answer sheet.
6. No clarifications will be given.
7. Candidate should hand over the answer sheet and question paper to the invigilator before leaving the examination hall.

Signature of the Candidate

**SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY**  
**BIOMEDICAL TECHNOLOGY WING, POOJAPURA, TRIVANDRUM – 12**  
**(An Institution of National Importance, Department of Science and Technology, Govt. of India)**

**Scientific Assistant (Instruments) to Sr.Scientific Assistant (Instruments)**

**QUESTION PAPER**

| Question No. |                                                                                                                                                                                                        |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1            | According to Clause 4.1 of ISO 17025:2017, the laboratory must structure and manage its operations to safeguard .....                                                                                  |
|              | A Profitability B Impartiality                                                                                                                                                                         |
|              | C Turnaround time D Marketing monopoly                                                                                                                                                                 |
| 2            | As per Clause 6.3 of ISO 17025: 2017, environmental conditions necessary for the performance of laboratory activities must be:                                                                         |
|              | A Maintained at 20°C and 50% relative humidity at all times B Monitored, controlled, and recorded as required by test methods                                                                          |
|              | C Kept strictly sterile D Verified periodically by an external auditor                                                                                                                                 |
| 3            | The metrological traceability of laboratory analysis can be established .....                                                                                                                          |
|              | A By comparison of results with an uncalibrated reference standard B By getting equipment verified by local authorities                                                                                |
|              | C By relying on manufacturer specification sheets D By an unbroken documented chain of calibrations                                                                                                    |
| 4            | As per Clause 7.1 of ISO 17025:2017, what should a laboratory do if the method requested by a customer is found inappropriate or out of date?                                                          |
|              | A Inform the customer B Refuse the work immediately                                                                                                                                                    |
|              | C Perform the test anyway without comment D Modify the method without informing the customer                                                                                                           |
| 5            | Method validation is mandatory when the laboratory performs an analysis using .....                                                                                                                    |
|              | A In-house methods B Non-standard methods                                                                                                                                                              |
|              | C Standard methods outside the intended scope D All of the above                                                                                                                                       |
| 6            | Which part of ISO 10993 comprehensively explains the estimation of residual content of ethylene oxide in sterilized medical devices, its threshold levels, and method validation requirements?         |
|              | A ISO 10993-1 B ISO 10993-12                                                                                                                                                                           |
|              | C ISO 10993-7 D ISO 10993-19                                                                                                                                                                           |
| 7            | The testing laboratory received a customer sample with a deviation from the specified conditions mentioned in the test request form. What must the laboratory do as per Clause 7.4 of ISO 17025: 2017? |
|              | A Discard the item immediately B Record the deviation and consult the customer for further instructions                                                                                                |

| Question No. |                                                                                                                                                                                     |                                                                                                |   |                                                                                                                                   |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------|
|              | C                                                                                                                                                                                   | Proceed with testing and pretend the item was intact                                           | D | Return the item without explanation                                                                                               |
| 8            | The advancing contact angle of a polymer film measured by the Wilhelmy approach using a force tensiometer by immersing it in water yields a value of 40°; it can be termed as ..... |                                                                                                |   |                                                                                                                                   |
|              | A                                                                                                                                                                                   | Hydrophobic                                                                                    | B | Hydrophilic                                                                                                                       |
|              | C                                                                                                                                                                                   | Hydroponic                                                                                     | D | Hygroscopic                                                                                                                       |
| 9            | The primary objective of chemical characterization as per ISO 10993-18 is .....                                                                                                     |                                                                                                |   |                                                                                                                                   |
|              | A                                                                                                                                                                                   | to replace all morphological, mechanical and tribological testing of a finished medical device | B | to identify and quantify chemical constituents of medical device to support toxicological risk assessment                         |
|              | C                                                                                                                                                                                   | to determine the shelf-life and sterility assurance level of the packaging material            | D | to ensure that a material is 100% free of synthetic chemical additives                                                            |
| 10           | Which of the following factors is the most critical in deciding the extent of the chemical characterization of medical devices?                                                     |                                                                                                |   |                                                                                                                                   |
|              | A                                                                                                                                                                                   | The batch size                                                                                 | B | Retail cost                                                                                                                       |
|              | C                                                                                                                                                                                   | Nature and duration of clinical contact                                                        | D | Country of origin                                                                                                                 |
| 11           | Which of the following is an example of an exaggerated extraction condition?                                                                                                        |                                                                                                |   |                                                                                                                                   |
|              | A                                                                                                                                                                                   | Heating the medical device above its decomposition temperature until it chars                  | B | Incubating the medical device at a temperature and duration exceeding clinical conditions without altering its chemical structure |
|              | C                                                                                                                                                                                   | Soaking the device in PBS for 24 hours at room temperature                                     | D | Exposing the device to UV radiation until complete degradation occurs                                                             |
| 12           | For the extraction analysis of medical devices, polar, non-polar, and semi-polar extraction vehicles are often recommended .....                                                    |                                                                                                |   |                                                                                                                                   |
|              | A                                                                                                                                                                                   | to increase the cost and duration of testing                                                   | B | to dissolve the entire device completely irrespective of material                                                                 |
|              | C                                                                                                                                                                                   | to ensure extraction of both hydrophilic and lipophilic chemical entities                      | D | to sterilize the sample before chemical analysis                                                                                  |
| 13           | Inductively Coupled Plasma Mass Spectrometry (ICP-MS) or Atomic Emission Spectroscopy (ICP-OES) is used to analyze.....in medical device extracts                                   |                                                                                                |   |                                                                                                                                   |
|              | A                                                                                                                                                                                   | Plasticizer content                                                                            | B | Residual monomers                                                                                                                 |
|              | C                                                                                                                                                                                   | Residual solvents                                                                              | D | Trace elemental residues                                                                                                          |
| 14           | Which of the following is the first step in the estimation of uncertainty of measurement (UoM)?                                                                                     |                                                                                                |   |                                                                                                                                   |
|              | A                                                                                                                                                                                   | Defining the measurand and functional relationship                                             | B | Checking calibrated reference standards                                                                                           |
|              | C                                                                                                                                                                                   | Calculating the standard deviation of historical data                                          | D | Choosing a coverage factor k=2                                                                                                    |
| 15           | Which of the following is a contributory factor to the overall uncertainty of a measurement?                                                                                        |                                                                                                |   |                                                                                                                                   |

| Question No. |                                                                                                                                                                                                                                                                  |                                              |   |                                                                                                       |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---|-------------------------------------------------------------------------------------------------------|
|              | A                                                                                                                                                                                                                                                                | Change in the environmental conditions       | B | Instrument resolution and drift                                                                       |
|              | C                                                                                                                                                                                                                                                                | Operator bias and sample inhomogeneity       | D | All of the above                                                                                      |
| 16           | Which of the following is a recommended tool for systematically identifying the contributors of measurement uncertainty before its quantification?                                                                                                               |                                              |   |                                                                                                       |
|              | A                                                                                                                                                                                                                                                                | Gantt chart                                  | B | Monte Carlo coin flip                                                                                 |
|              | C                                                                                                                                                                                                                                                                | Ishikawa diagram                             | D | Linear regression calibration curve                                                                   |
| 17           | Name the equation used to calculate the effective degrees of freedom ( $v_{eff}$ ) by combining uncertainties of all types with finite degrees of freedom?                                                                                                       |                                              |   |                                                                                                       |
|              | A                                                                                                                                                                                                                                                                | Nernst equation                              | B | Arrhenius equation                                                                                    |
|              | C                                                                                                                                                                                                                                                                | Welch-Satterthwaite equation                 | D | Shirakawa equation                                                                                    |
| 18           | If the standard uncertainty of a measurement is evaluated by statistical analysis of a series of observations, it is called type ..... uncertainty.                                                                                                              |                                              |   |                                                                                                       |
|              | A                                                                                                                                                                                                                                                                | A                                            | B | B                                                                                                     |
|              | C                                                                                                                                                                                                                                                                | C                                            | D | D                                                                                                     |
| 19           | If the calibration certificate of a certified reference material quotes an expanded uncertainty in the concentration of $U = \pm 1.24 \text{ mg/mL}$ at a 95% confidence level ( $k=2$ ) following a normal distribution, what will be the standard uncertainty? |                                              |   |                                                                                                       |
|              | A                                                                                                                                                                                                                                                                | 1.24 mg/mL                                   | B | 2.48 mg/mL                                                                                            |
|              | C                                                                                                                                                                                                                                                                | 0.62 mg/mL                                   | D | 0.31 mg/mL                                                                                            |
| 20           | A laboratory participated in a proficiency testing program for moisture content analysis and got a z-score of 1.80. The test result of the lab is .....                                                                                                          |                                              |   |                                                                                                       |
|              | A                                                                                                                                                                                                                                                                | Non-satisfactory                             | B | Questionable                                                                                          |
|              | C                                                                                                                                                                                                                                                                | Satisfactory                                 | D | None of these                                                                                         |
| 21           | Which of the following parameters measures the efficiency of a chromatography column?                                                                                                                                                                            |                                              |   |                                                                                                       |
|              | A                                                                                                                                                                                                                                                                | Retention factor                             | B | Number of theoretical plates                                                                          |
|              | C                                                                                                                                                                                                                                                                | Selectivity factor                           | D | Particle size                                                                                         |
| 22           | Gradient elution is used in HPLC analysis .....                                                                                                                                                                                                                  |                                              |   |                                                                                                       |
|              | A                                                                                                                                                                                                                                                                | to avoid the usage of RI detector            | B | to elute compounds with widely varying polarities in a single run by varying mobile phase composition |
|              | C                                                                                                                                                                                                                                                                | to vary the mobile phase flow rate with time | D | to prevent degradation of silica column packing                                                       |
| 23           | If the sample solvent has greater polarity than the mobile phase used in reverse-phase HPLC, it will cause .....                                                                                                                                                 |                                              |   |                                                                                                       |
|              | A                                                                                                                                                                                                                                                                | Peak broadening                              | B | Reduced retention                                                                                     |
|              | C                                                                                                                                                                                                                                                                | Peak distortion                              | D | All of these                                                                                          |
| 24           | Attenuated Total Reflectance (ATR) accessory in FTIR enables the analysis of solid and liquid samples directly by using .....                                                                                                                                    |                                              |   |                                                                                                       |
|              | A                                                                                                                                                                                                                                                                | Transmission through a KBr                   | B | An evanescent wave generated by internal                                                              |

| Question No. |                                                                                                                                                                                           |                                           |                                                    |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------|
|              |                                                                                                                                                                                           | pellet                                    | reflection inside a high refractive index crystal  |
|              | C                                                                                                                                                                                         | Refractive bending through a quartz prism | D Thermal emission from heated wire filaments      |
| 25           | Which mechanical parameter can be calculated directly from the linear slope of the elastic region on an engineering stress-strain curve obtained using a Universal Testing Machine (UTM)? |                                           |                                                    |
|              | A                                                                                                                                                                                         | Young's Modulus                           | B Ultimate Tensile Strength                        |
|              | C                                                                                                                                                                                         | Yield Offset Point                        | D Fracture Toughness                               |
| 26           | Which standard test method specifies procedures for evaluating the tensile properties of thin plastic sheeting (films under 1.0 mm) using a UTM?                                          |                                           |                                                    |
|              | A                                                                                                                                                                                         | ASTM D882                                 | B ASTM D638                                        |
|              | C                                                                                                                                                                                         | ASTM C109                                 | D ASTM D903                                        |
| 27           | If a series of 100 independent observations gives a standard deviation of 0.1. What is the standard uncertainty $u(x)$ of the arithmetic mean?                                            |                                           |                                                    |
|              | A                                                                                                                                                                                         | 0.1                                       | B 1                                                |
|              | C                                                                                                                                                                                         | 0.01                                      | D 0.001                                            |
| 28           | Which of the following detector is useful in estimating the absolute molecular weight of a polymer sample without using standards?                                                        |                                           |                                                    |
|              | A                                                                                                                                                                                         | Differential Refractive index             | B Multi-angle light scattering                     |
|              | C                                                                                                                                                                                         | Diode Array detector                      | D Electrical conductivity                          |
| 29           | As per Beer-Lambert Law, the absorbance of a sample ..... when the concentration is doubled keeping path length and molar absorptivity constant.                                          |                                           |                                                    |
|              | A                                                                                                                                                                                         | Remains the same                          | B halved                                           |
|              | C                                                                                                                                                                                         | Doubled                                   | D Become zero                                      |
| 30           | In Proton Nuclear Magnetic Resonance spectroscopy, the area under a signal peak represents .....                                                                                          |                                           |                                                    |
|              | A                                                                                                                                                                                         | The electronegativity of adjacent atoms   | B The relative number of equivalent hydrogen atoms |
|              | C                                                                                                                                                                                         | The coupling constant                     | D The spin quantum number of the nucleus           |
| 31           | In Texture Profile Analysis, "Gumminess" of a candy is mathematically calculated as.....                                                                                                  |                                           |                                                    |
|              | A                                                                                                                                                                                         | Hardness $\times$ Cohesiveness            | B Adhesiveness $\times$ Cohesiveness               |
|              | C                                                                                                                                                                                         | Hardness $\times$ Springiness             | D Fracturability $\times$ Resilience               |
| 32           | As per clause 7.7 of ISO 17025: 2017, the laboratory should ensure the validity of its test results by appropriate methods such as.....                                                   |                                           |                                                    |
|              | A                                                                                                                                                                                         | Inter-laboratory comparison               | B Blind sample analysis                            |
|              | C                                                                                                                                                                                         | Intermediate checks with standards        | D All of these                                     |
| 33           | What standard reference compound is commonly added to samples in proton and carbon NMR to set the value of 0 ppm on the chemical shift scale?                                             |                                           |                                                    |
|              | A                                                                                                                                                                                         | Tetramethylsilane                         | B Deuterated chloroform                            |
|              | C                                                                                                                                                                                         | Chloroform                                | D Heavy Water                                      |

| Question No. |                                                                                                                                                                                                                                                    |                                                                                                |   |                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------|
| 34           | Which physical property is estimated using a force tensiometer by measuring the pull force exerted on a platinum plate suspended at a liquid interface?                                                                                            |                                                                                                |   |                                                                                                                          |
|              | A                                                                                                                                                                                                                                                  | Dynamic viscosity                                                                              | B | Zeta potential                                                                                                           |
|              | C                                                                                                                                                                                                                                                  | Surface tension                                                                                | D | Refractive index                                                                                                         |
| 35           | Which among the following physical or chemical events CANNOT be detected directly by using thermogravimetric analysis alone?                                                                                                                       |                                                                                                |   |                                                                                                                          |
|              | A                                                                                                                                                                                                                                                  | Thermal degradation                                                                            | B | Loss of moisture                                                                                                         |
|              | C                                                                                                                                                                                                                                                  | Oxidation in an oxygen atmosphere                                                              | D | Glass transition temperature                                                                                             |
| 36           | In Heat-Flux DSC, how is the heat flow between the sample and reference pans measured?                                                                                                                                                             |                                                                                                |   |                                                                                                                          |
|              | A                                                                                                                                                                                                                                                  | using individual micro-heaters maintaining sample and reference pans at identical temperatures | B | by measuring the temperature difference across a calibrated thermal resistance disk connecting sample and reference pans |
|              | C                                                                                                                                                                                                                                                  | by weighing both pans continuously on a microbalance                                           | D | by measuring optical emission from the pans                                                                              |
| 37           | For the chromatographic estimation of a drug, you require a 1:1 mixture of acetonitrile and 0.5% acetic acid as the mobile phase. How much volume of 98% acetic acid will you take to prepare 1000 mL of an approximate 0.5% acetic acid solution? |                                                                                                |   |                                                                                                                          |
|              | A                                                                                                                                                                                                                                                  | 4.98 mL                                                                                        | B | 0.98 mL                                                                                                                  |
|              | C                                                                                                                                                                                                                                                  | 5.10 mL                                                                                        | D | 5.98 mL                                                                                                                  |
| 38           | 2,4-Dinitrophenyl hydrazine is the common colorimetric reagent used for the estimation of ..... in extracts                                                                                                                                        |                                                                                                |   |                                                                                                                          |
|              | A                                                                                                                                                                                                                                                  | Aldehydes                                                                                      | B | Ethers                                                                                                                   |
|              | C                                                                                                                                                                                                                                                  | Ethylene chlorohydrin                                                                          | D | Phthalates                                                                                                               |
| 39           | The degree of crystallinity ( $\chi_c$ ) of a semi-crystalline polymer can be calculated from Differential Scanning Calorimetry (DSC) data as .....                                                                                                |                                                                                                |   |                                                                                                                          |
|              | A                                                                                                                                                                                                                                                  | $\frac{\Delta H_m}{T_m} \times 100$                                                            | B | $\frac{T_m}{T_g} \times 100$                                                                                             |
|              | C                                                                                                                                                                                                                                                  | $\frac{\Delta C_p}{T_g} \times 100$                                                            | D | $\frac{\Delta H_m}{\Delta H_m^\circ} \times 100$                                                                         |
| 40           | The second heating scan is often performed in routine polymer characterization using DSC. Why?                                                                                                                                                     |                                                                                                |   |                                                                                                                          |
|              | A                                                                                                                                                                                                                                                  | To calibrate the balance cell                                                                  | B | To burn off the sample completely                                                                                        |
|              | C                                                                                                                                                                                                                                                  | To erase the thermal history and processing strain                                             | D | To measure sample mass loss                                                                                              |
| 41           | In size-exclusion chromatography (SEC), which molecules elute first from the column?                                                                                                                                                               |                                                                                                |   |                                                                                                                          |
|              | A                                                                                                                                                                                                                                                  | Smallest molecules                                                                             | B | Largest molecules                                                                                                        |
|              | C                                                                                                                                                                                                                                                  | Positively charged molecules                                                                   | D | Hydrophobic molecules                                                                                                    |
| 42           | Based on Mutual Exclusion principle, for a molecule possessing a center of inversion symmetry:                                                                                                                                                     |                                                                                                |   |                                                                                                                          |

| Question No. |                                                                                                                                                                       |                                                                    |   |                                                                           |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---|---------------------------------------------------------------------------|
|              | A                                                                                                                                                                     | No vibrational mode can be both IR and Raman active simultaneously | B | All vibrational modes are both IR-active and Raman-active, simultaneously |
|              | C                                                                                                                                                                     | No vibrational modes are IR-active or Raman-active                 | D | Overtone are completely forbidden                                         |
| 43           | The glass transition temperature (T <sub>g</sub> ) of a polymer can be calculated using .....                                                                         |                                                                    |   |                                                                           |
|              | A                                                                                                                                                                     | Differential Scanning Calorimeter                                  | B | Dynamic mechanical analyzer                                               |
|              | C                                                                                                                                                                     | Thermo mechanical analyzer                                         | D | All of these                                                              |
| 44           | Why are monochromatic lasers of longer wavelengths (785 nm or 1064 nm) preferred to visible wavelengths (532 nm) for the Raman analysis of biological specimens?      |                                                                    |   |                                                                           |
|              | A                                                                                                                                                                     | Longer wavelengths eliminate Raman scattering                      | B | Longer wavelengths reduce background fluorescence interference            |
|              | C                                                                                                                                                                     | Longer wavelengths increase Raman scattering intensity             | D | Shorter wavelengths cause sample malformation                             |
| 45           | In the Raman spectrum of carbon materials like graphene or carbon nanotubes, characteristic D and G bands can be seen at ..... and .....                              |                                                                    |   |                                                                           |
|              | A                                                                                                                                                                     | 2500 cm <sup>-1</sup> and 1800 cm <sup>-1</sup>                    | B | 1750 cm <sup>-1</sup> and 1600 cm <sup>-1</sup>                           |
|              | C                                                                                                                                                                     | 2700 cm <sup>-1</sup> and 1650 cm <sup>-1</sup>                    | D | 1350 cm <sup>-1</sup> and 1580 cm <sup>-1</sup>                           |
| 46           | In the FTIR spectrum of acrylonitrile butadiene styrene (ABS) plastic, the characteristic sharp peak observed around 2260 cm <sup>-1</sup> is due to ..... stretching |                                                                    |   |                                                                           |
|              | A                                                                                                                                                                     | N-H                                                                | B | C-S                                                                       |
|              | C                                                                                                                                                                     | C-N                                                                | D | N-O                                                                       |
| 47           | In rotational rheology, a fluid is said to have shear-thinning or pseudoplastic behavior if it shows                                                                  |                                                                    |   |                                                                           |
|              | A                                                                                                                                                                     | Increasing viscosity with increasing shear rate                    | B | Decreasing viscosity with increasing shear rate                           |
|              | C                                                                                                                                                                     | Immediate conversion to a solid crystal on applying shear          | D | Constant viscosity independent of shear rate                              |
| 48           | Damping factor or tan δ of fluids can be estimated from rheological measurements as .....                                                                             |                                                                    |   |                                                                           |
|              | A                                                                                                                                                                     | $\frac{G''}{G'}$                                                   | B | $\frac{G'}{G''}$                                                          |
|              | C                                                                                                                                                                     | $\frac{G''}{\mu \cdot G'}$                                         | D | $\frac{G''}{\tau \cdot G'}$                                               |
| 49           | The 'gel point' or sol-gel crossover point can be estimated from the time or temperature sweep rheological measurements as the point where                            |                                                                    |   |                                                                           |
|              | A                                                                                                                                                                     | Viscosity becomes zero                                             | B | Sample completely evaporates                                              |
|              | C                                                                                                                                                                     | tan δ becomes one                                                  | D | The tangential force becomes infinity                                     |
| 50           | What is the major advantage of modulated DSC over conventional DSC?                                                                                                   |                                                                    |   |                                                                           |
|              | A                                                                                                                                                                     | It doesn't need any purge gases                                    | B | It's capable of analyzing samples on a large scale                        |

| Question No. |   |                                                               |                                                    |
|--------------|---|---------------------------------------------------------------|----------------------------------------------------|
|              | C | It is capable of simultaneous measurement of sample mass loss | D It can separate complex, overlapping transitions |

\*\*\*\*\*End\*\*\*\*\*



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**Written test for the post of Sr. Scientific Assistant (Instruments)**

**Answer Key**

| Question No. | Answer |
|--------------|--------|
| 1            | B      |
| 2            | B      |
| 3            | D      |
| 4            | A      |
| 5            | D      |
| 6            | C      |
| 7            | B      |
| 8            | B      |
| 9            | B      |
| 10           | C      |
| 11           | B      |
| 12           | C      |
| 13           | D      |
| 14           | A      |
| 15           | D      |
| 16           | C      |
| 17           | C      |
| 18           | A      |
| 19           | C      |
| 20           | C      |
| 21           | B      |
| 22           | B      |
| 23           | D      |
| 24           | B      |
| 25           | A      |

| Question No. | Answer |
|--------------|--------|
| 26           | A      |
| 27           | C      |
| 28           | B      |
| 29           | C      |
| 30           | B      |
| 31           | A      |
| 32           | D      |
| 33           | A      |
| 34           | C      |
| 35           | D      |
| 36           | B      |
| 37           | C      |
| 38           | A      |
| 39           | D      |
| 40           | C      |
| 41           | B      |
| 42           | A      |
| 43           | D      |
| 44           | B      |
| 45           | D      |
| 46           | C      |
| 47           | B      |
| 48           | A      |
| 49           | C      |
| 50           | D      |

\*\*\*\*\*End\*\*\*\*\*

